

**FIG. 1**

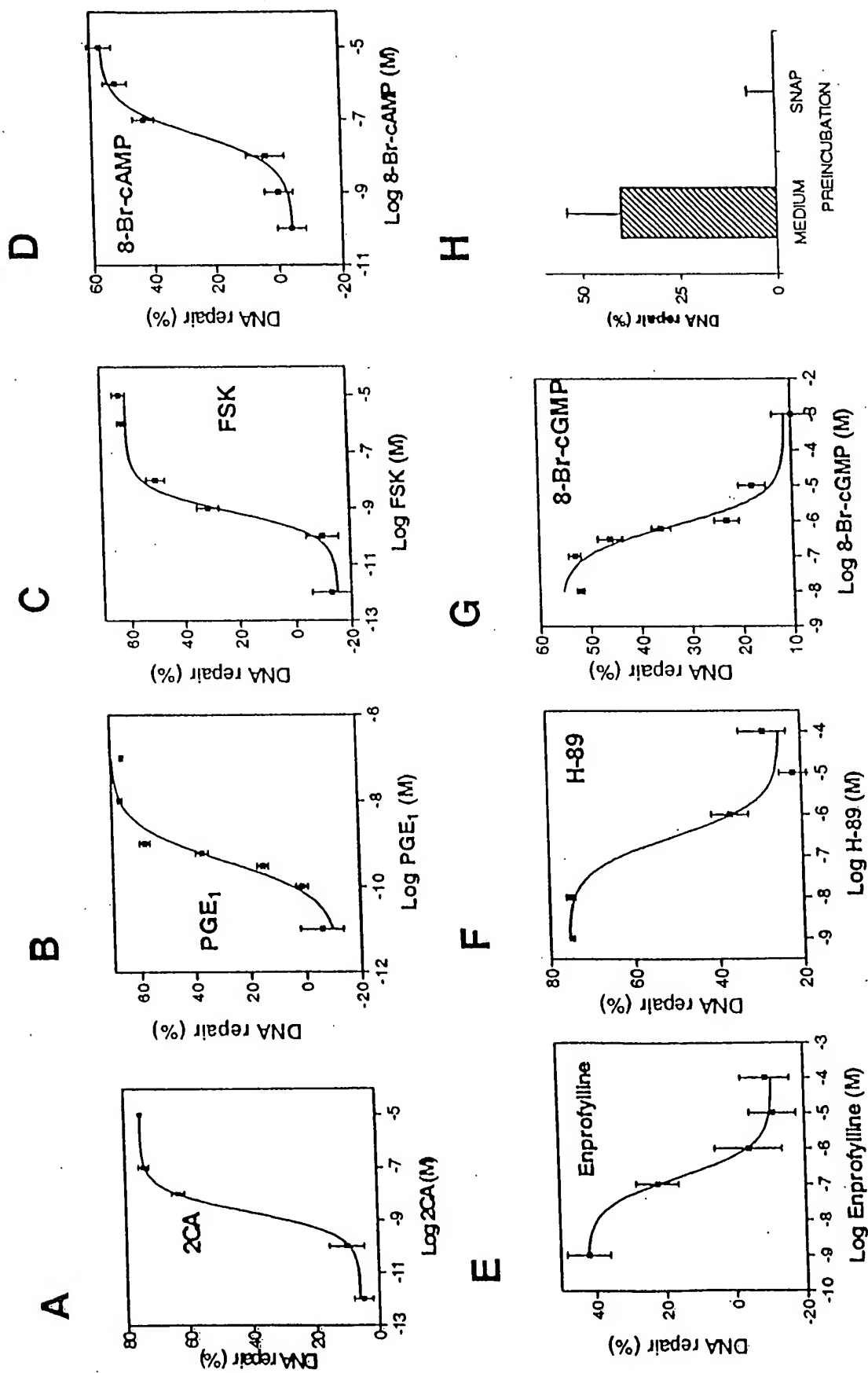


FIG. 2

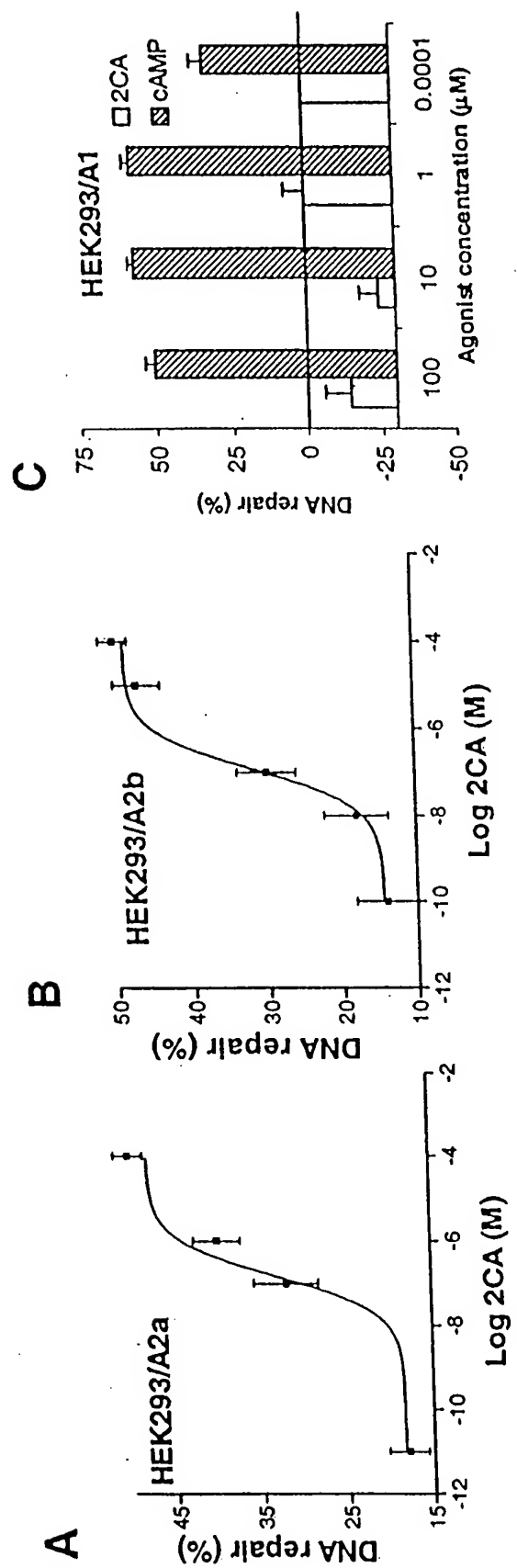
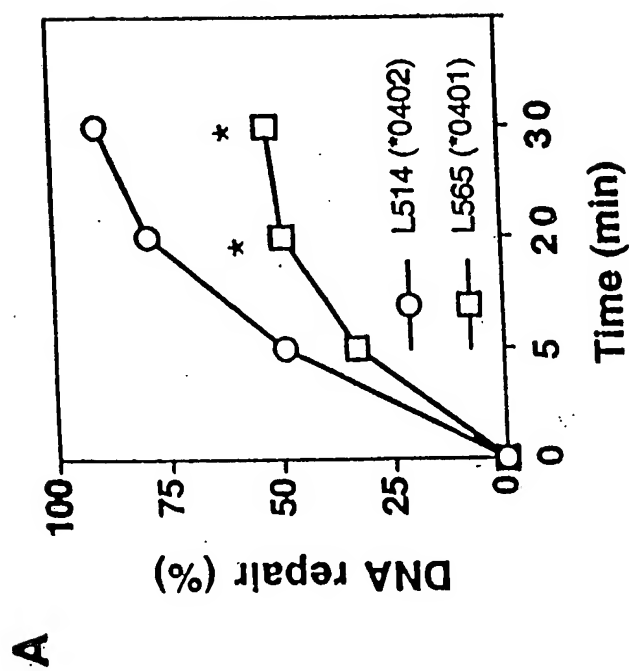
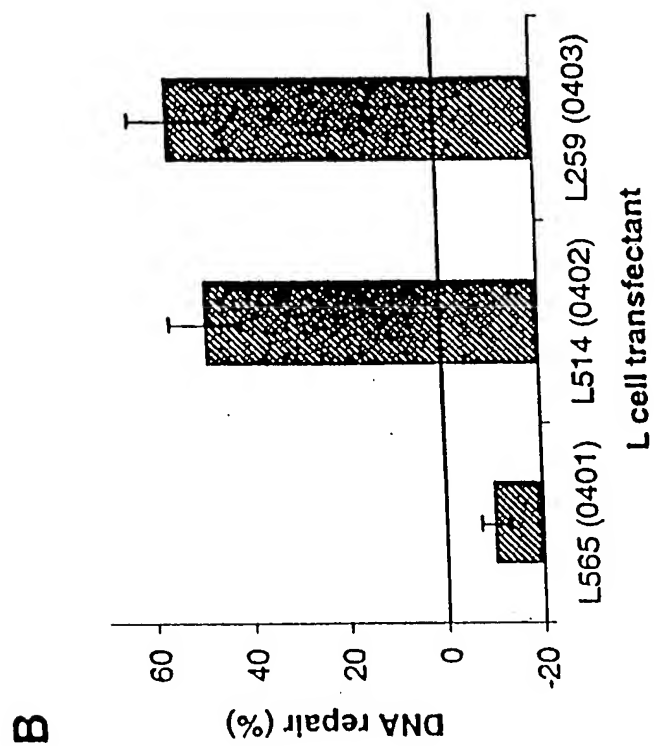
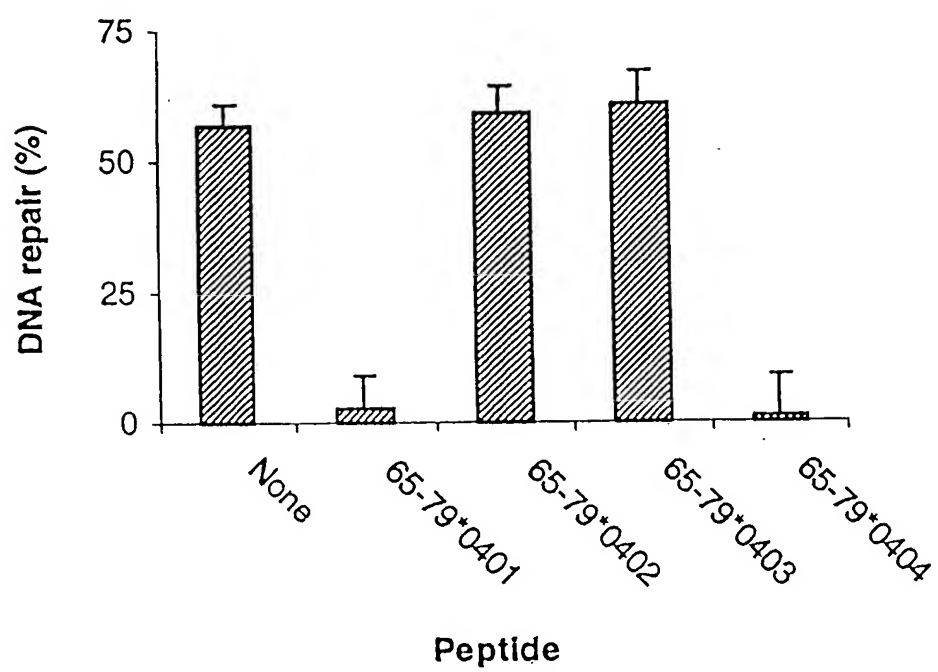


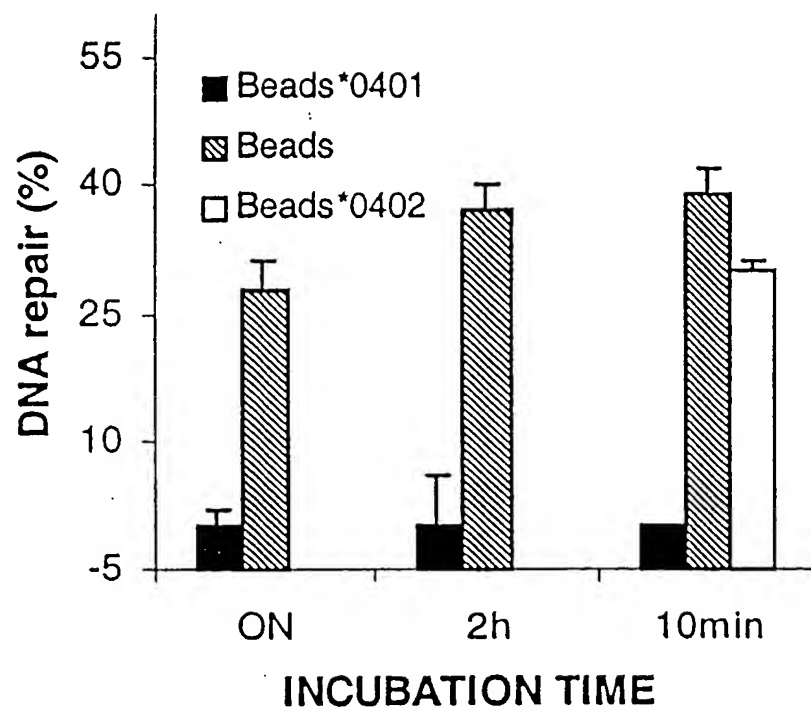
FIG. 3



**FIG. 4**



**FIG. 5**



**FIG. 6**

HLA-DRβ*0401	X <sub>n</sub> QKRAAX <sub>n</sub>	Xaa <sub>n</sub> Gln Lys Arg Ala AlaXaa <sub>n</sub>	[SEQ ID NO:28]
*0402	X <sub>n</sub> DERAAX <sub>n</sub>	Xaa <sub>n</sub> Asp Glu Arg Ala AlaXaa <sub>n</sub>	[SEQ ID NO:29]
*0403	X <sub>n</sub> QRRRAEX <sub>n</sub>	Xaa <sub>n</sub> Gln Arg Arg Ala GluXaa <sub>n</sub>	[SEQ ID NO:30]
*0404	X <sub>n</sub> QRRRAAX <sub>n</sub>	Xaa <sub>n</sub> Gln Arg Arg Ala AlaXaa <sub>n</sub>	[SEQ ID NO:31]
H. Laminin β2	X <sub>n</sub> QRRRAAX <sub>n</sub>	Xaa <sub>n</sub> Gln Arg Arg Ala AlaXaa <sub>n</sub>	[SEQ ID NO:31]
M. Laminin β2	X <sub>n</sub> QRRRTAX <sub>n</sub>	Xaa <sub>n</sub> Gln Arg Arg Thr AlaXaa <sub>n</sub>	[SEQ ID NO:32]
APLP1	X <sub>n</sub> QRRRAAX <sub>n</sub>	Xaa <sub>n</sub> Gln Arg Arg Ala AlaXaa <sub>n</sub>	[SEQ ID NO:31]
apoE ε4	X <sub>n</sub> QKRLAX <sub>n</sub>	Xaa <sub>n</sub> Gln Lys Arg Leu AlaXaa <sub>n</sub>	[SEQ ID NO:33]
ε3	X <sub>n</sub> QKRLAX <sub>n</sub>	Xaa <sub>n</sub> Gln Lys Arg Leu AlaXaa <sub>n</sub>	[SEQ ID NO:33]
ε2	X <sub>n</sub> QKCLAX <sub>n</sub>	Xaa <sub>n</sub> Gln Lys Cys Leu AlaXaa <sub>n</sub>	[SEQ ID NO:34]

FIG. 7

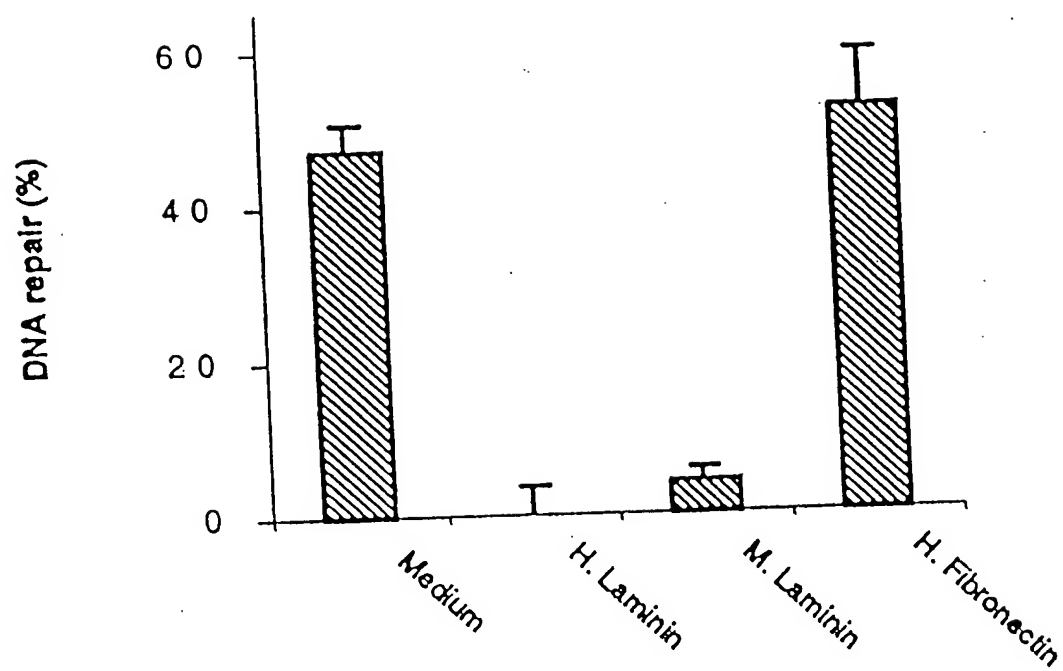
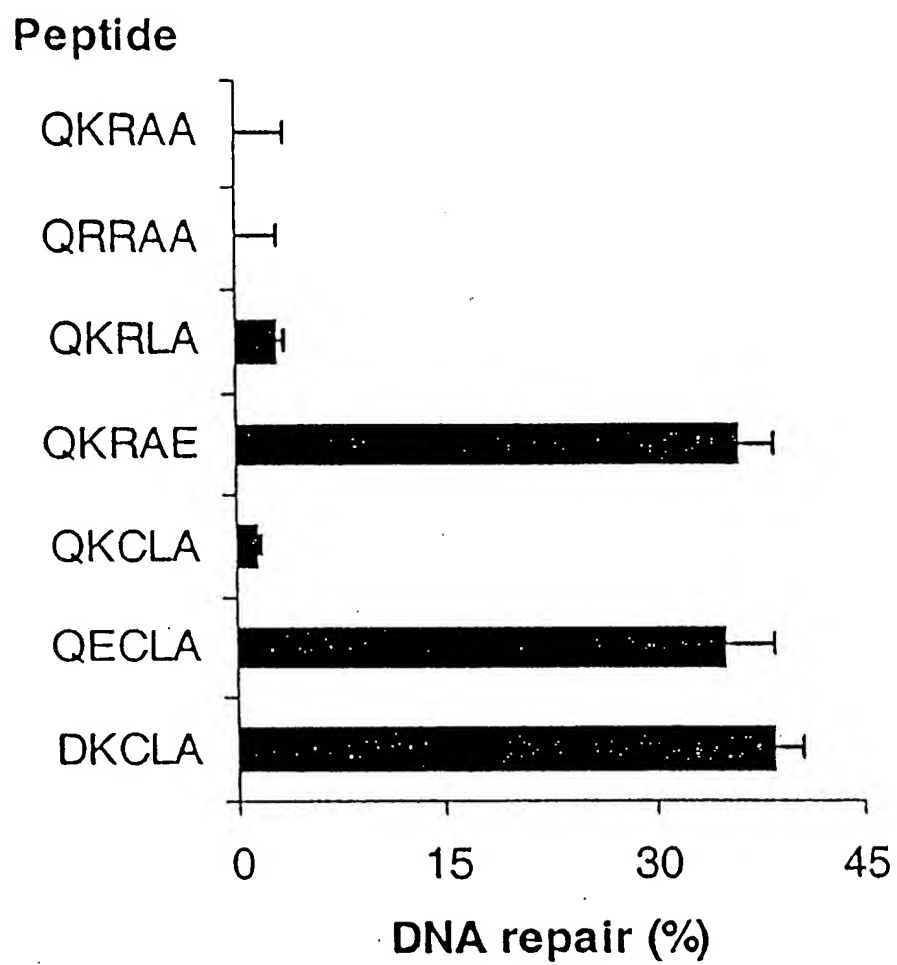


FIG. 8

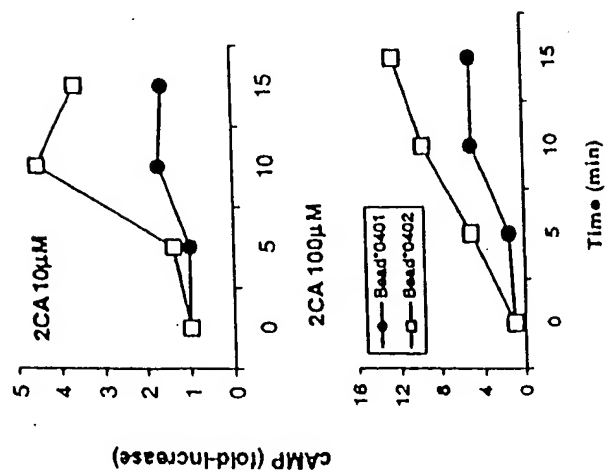




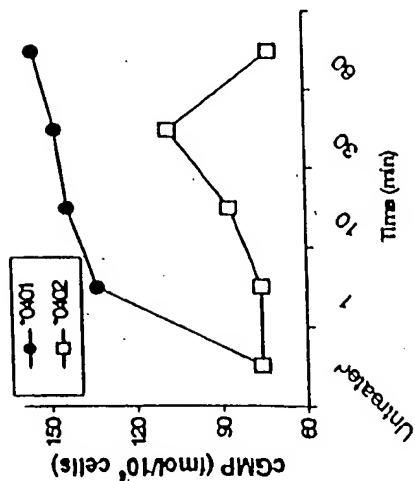
**FIG. 9**

FIG. 10

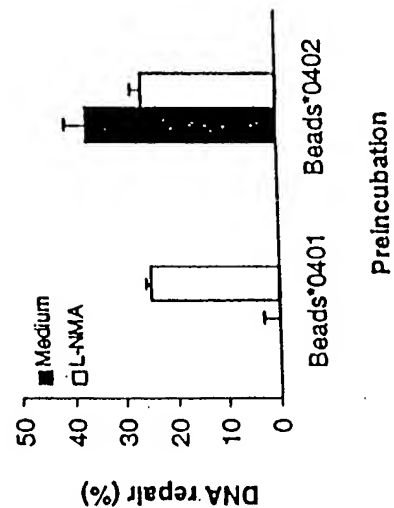
A



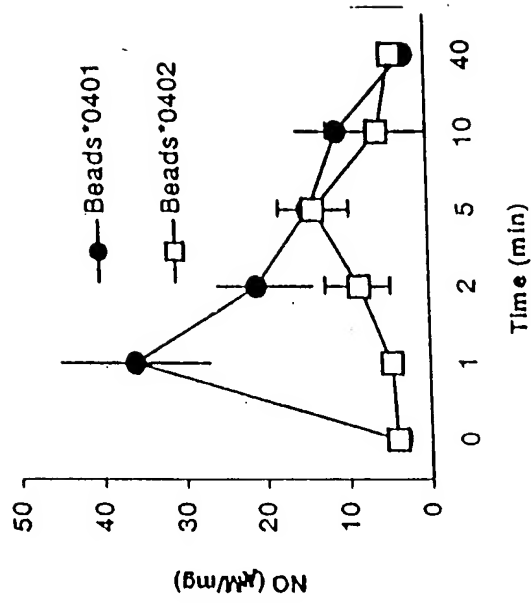
D



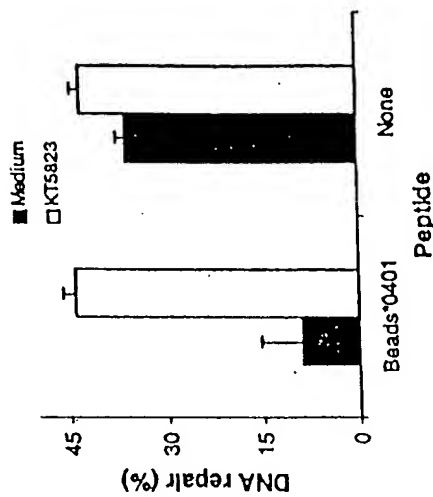
E



C



F



HBC\*0401 [SEQ ID NO:17]

MDIDPYKEFGATVELLSFLPSDFFPSVRDLLDNASALYREALSPHHTALRQAILCWGELMTLATWVGNGLED

HKDLLEQKRAAVDTYCVDPISRDLVVSYYVNTNMGLKFRQLLWFHISCLTFGRETVIEYLVSGVWIRTTPPAYRPPNAP

ILSTLPAWARVIN

Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu Ser Phe Leu Pro  
Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp Asn Ala Ser Ala Leu Tyr Arg Glu  
Ala Leu Glu Ser Pro Glu His Cys Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu  
Cys Trp Gly Glu Leu Met Thr Leu Ala Thr Trp Val Gly Gly Asn Leu Glu Asp His Lys  
Asp Leu Leu Glu Gln Lys Arg Ala Ala Val Asp Thr Tyr Cys Val Asp Pro Ile Ser Arg  
Asp Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly Leu Lys Phe Arg Gln Leu Leu Trp  
Phe His Ile Ser Cys Leu Thr Phe Gly Arg Glu Thr Val Ile Glu Tyr Leu Val Ser Phe  
Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr  
Leu Pro Ala Trp Ala Arg Val Ile Asn

FIG. 11 A

HBC\*0402 [SEQ ID NO:18]

MDIDPYKEFGATVELLSFLPSDFPSPVRDLLDNASALYREALSPHCSPHHTALRQAILCWGELMTLATWVGGNLED

HKDILEDERAADVTCVDPISRDLVVSYYVNTNMGLKFRQLLWFHISCLTFGRETVIEYLVSGVWIRTPPAYRPPNAP

ILSTLPARVIN

Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu Ser Phe Leu Pro  
Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp Asn Ala Ser Ala Leu Tyr Arg Glu  
Ala Leu Glu Ser Pro Glu His Cys Ser Pro His Thr Ala Leu Arg Gln Ala Ile Leu  
Cys Trp Gly Glu Leu Met Thr Leu Ala Thr Trp Val Gly Gly Asn Leu Glu Asp His Lys  
Asp Ile Leu Glu Asp Glu Arg Ala Ala Val Asp Thr Tyr Cys Val Asp Pro Ile Ser Arg  
Asp Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly Leu Lys Phe Arg Gln Leu Leu Trp  
Phe His Ile Ser Cys Leu Thr Phe Gly Arg Glu Thr Val Ile Glu Tyr Leu Val Ser Phe  
Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr  
Leu Pro Ala Trp Ala Arg Val Ile Asn

FIG. 11 A Cont.

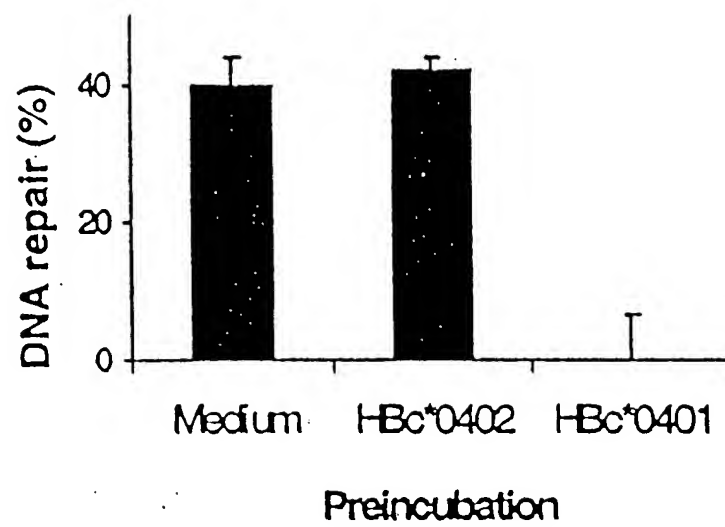
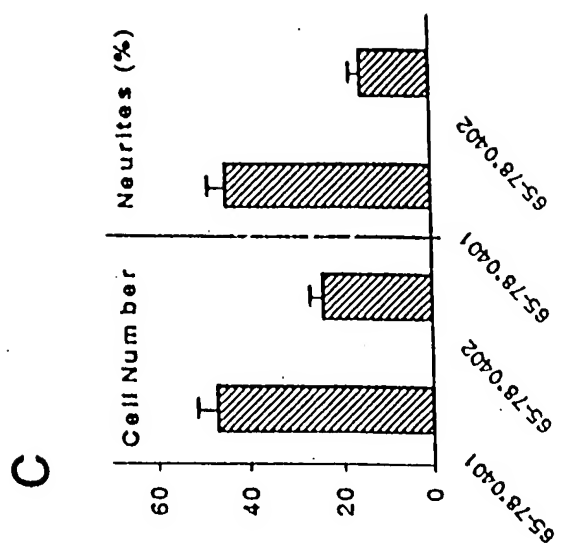
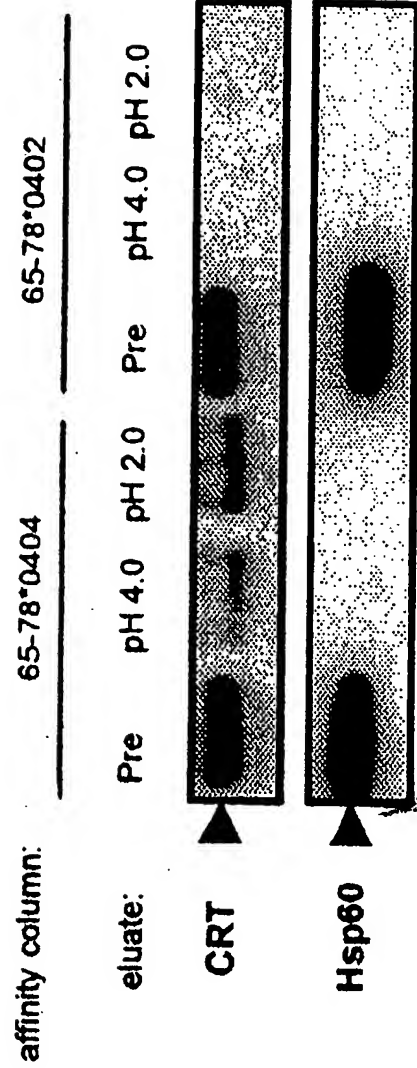


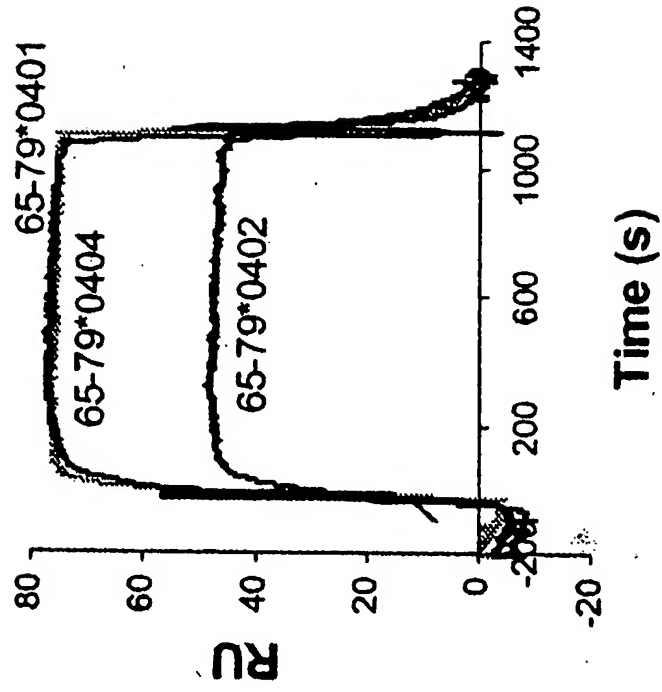
FIG. 11B



**FIG. 12**

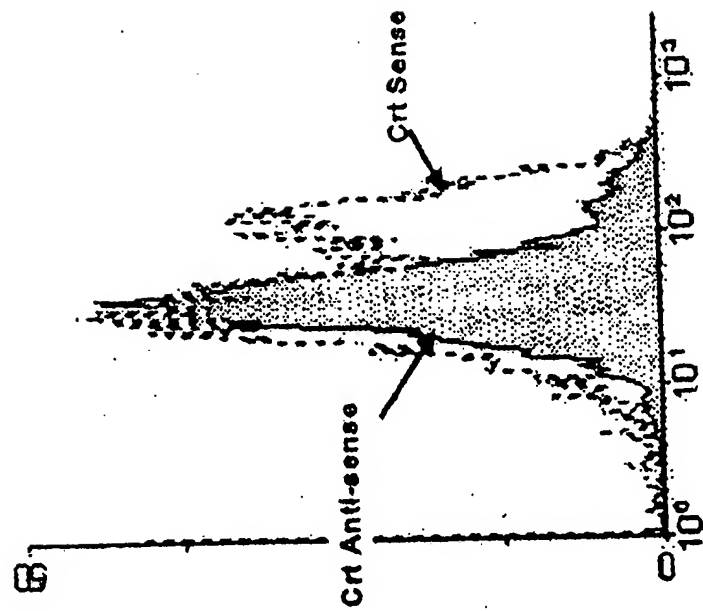


**FIG. 13A**

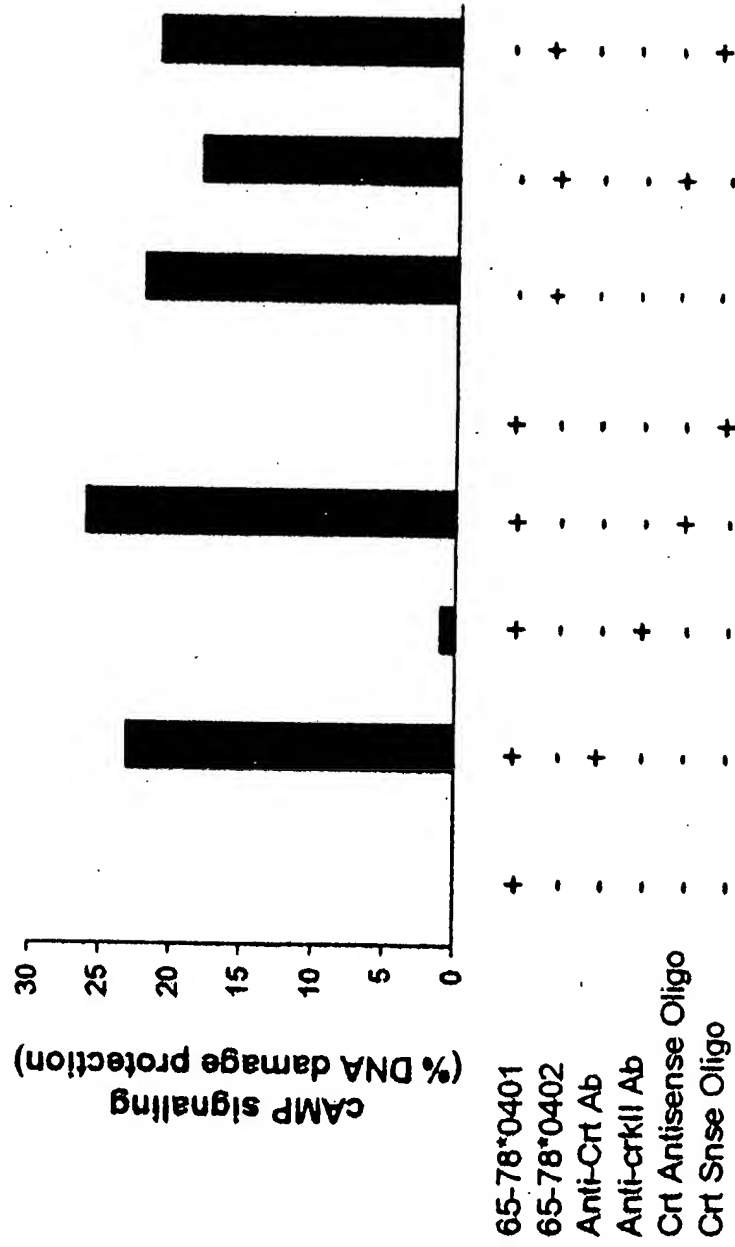


**FIG. 13B**





**FIG. 13C**



**FIG. 13D**

1 mllsvp1llg llglavaepa vyfkeqfldg dgwtsrwies khksdfgkfv lssgkfygde  
61 ekdkglqtsq darfyalsas fepfsnkgqt lvvqftvkhe qnidcgggyv klfpnsldqt  
121 dmhgdseyni mfgpdicgpg tkkvhvifny kgknvlinkd irckddefth lytlivrpdn  
181 tyevkidnsq vesgsleddw dflppkkikd pdaskpedwd erakiddptd skpedwdkpe  
241 hipdpdakkp edwdeemdge weppvignpe ykgewkprqi dnpdykgtwi hpeidnpeys  
301 pdpsiyaydn fgvlglldlwq vksgtifdnf litndeayae efgnetwgvt kaaekqmkdk  
361 qdeeqrlkee eedkkrkeee eaedkedded kdedeedeed keedeedvp ggakdel

**FIG. 14**